FLOW MATCHING METHOD AND SYSTEM USING TWO TRANSDUCERS

ABSTRACT OF THE DISCLOSURE

A property of unconnected first and second fluid flows is matched, such as, but not limited to, matching the flow rate of the replacement water stream with the waste water stream in kidney dialysis. The first and second flow paths are interconnected so substantially the same flow from the first flow source encounters a first flow transducer which is in the first flow path and a second flow transducer which is in the second flow path. Transducer readings are taken for various identical values of the property of the first fluid flow. Then the first and second flow paths are disconnected, and the property, such as but not limited to flow rate, of one of the fluid flows in one of the flow paths is controlled using transducer readings and the previous interconnected-path transducer readings to match the property in the two flows. In one example, the transducers are uncalibrated transducers.